I-8093W
3-axis Encoder Module

Model: I-8093W

## Introduction

**I-8093W** is a 3-axis high speed encoder module. Its each axis can be independently configured as one of Quadrant, Pulse/Direction or CW/CCW input mode. The maximum input rate for Quadrant mode is 1 MHz, and for Pulse/Direction and CW/CCW modes is 4 MHz.

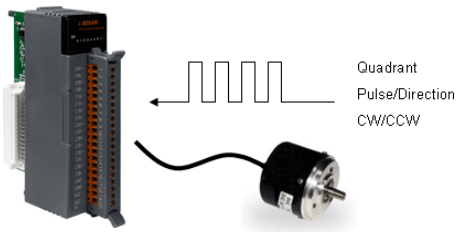
The high-end specifications of I-8093W and complete software support make it ideal for wide range applications in position measurement of motion systems for industrial and laboratory environment.

## Features

- 3-axis Encoder Inputs
- 1 MHz Input Rate for Quadrant Input Mode
- 4 MHz Input Rate for Pulse/Direction and cw/ccw Input Modes
- 32-bit Count Range
- 2500 Vrms Optical Isolation

## Applications

- Position Measure of Motion System




## Specifications

| | |
|---|---|
| Encoder Input | |
| Input Axis | 3-axis |
| Encoder Counter | 32-bit |
| Counting Mode | 1. Quadrant Counting<br>2. CW/CCW<br>3. Pulse/Dir |
| Maximum Counting Rate | 1. Quadrant Counting : 1 MHz<br>2. CW/CCW : 4 MHz<br>3. Pulse/Dir : 4 MHz |
| Intra-module Isolation, Field to Logic | 2500 Vrms |
| 4KV ESD Protection | Contact for each channel |
| LED Display | |
| 1 LED as Power Indicator /9 LED as Status Indicator | |
| Power | |
| Power Consumption | 2 W Max |
| Environment | |
| Operating Temperature | -25 ~ 75 °C |
| Storage Temperature | -30 ~ 85 °C |
| Humidity | 5 ~ 95 % RH, Non-condensing |
| **Dimensions** | |
| 30 mm x 102 mm x 115 mm (W x L x H) | |

## Ordering Information

| | |
|---|---|
| I-8093W | 3-axis Encoder Module |